On the use of Powerlines for the transmission of Broadband Internet:
This is a flawed system and its only redeeming feature is that it is cheap from an infrastructure investment standpoint to deploy.

What this is intended to do is to provide cheap Internet service by using powerlines to carry broadband signals between 1 and 50 MHz to deliver the information.

It would not matter if everyone had a 200 ft tower if the noise level keeps you from receiving a signal. Spark gap transmitters were outlawed years ago because of broadband radiated noise and harmonics, and now BPL will cause the same broadband noise problems only it will be coming directly to your house and radio on the powerlines. You will have broadband noise in all directions.

There are a few of us hams that have worked QRP with just a couple watts or less. It is truly amazing that you can make contacts with such a low power level, but BPL threatens to even make 100W contacts a thing of the past.